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### NATIONAL BUREAU OF STANDARDS REPORT

**NBS PROJECT** 

NBS REPORT

1002-30-4876

January 27. 1958

5756

FIRE ENDURANCE TEST OF BULKHEAD ASSEMBLY

by James V. Ryan

Fire Protection Section Building Technology Division

For

U. S. Coast Guard

Authorization No. CGBS314-24-58

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U. S. DEPARTMENT OF COMMERCE NATIONAL BUREAU OF STANDARDS

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## FIRE BODDER X TEXT OF STREET OF ASSESSED

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it the request of the C. . Const Chard (letter of An entember 1577), a sulfreen specimen was embjected to fire test in compliance (the upport 160.006-3(b) of pacification for officers result for perchant vessels.

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#### Property and the sale

#### WARRY DAMES AND A

coment-asiastos anterial. No attornt was made to establish the composition further. The board was in two places, one 17 in. and the other 30 1/2 in. wide, both 7/8 in. thick. The thickness was determined slow on edge protected by the mounting details. The thickness over most of the specimen had been reduced to as little as 5/8 in. as a result of the fire exposure. The two pieces of marine bosts were in a frame made up of four langths of 0.072 in. thick sheet steel forced into 1 in. doen charmel sections with the sheet beat back 1/2 in. Incide each lip of the charmel. The width between these twood kack edges was such that the merice board fit between smusly. The two eleces of board were supported along the joint between them by a joint member acts up of the Tweetien pieces bolisd together into an -section. The pieces were of 0.000 in. thick steel and word held together by five 1/4 in. belts, at about 10 in. oc. The flagges of the dissocion (or tone of the individual T section places) were 2 5/16 In. seroes and the space between Clanges was such that the marine board fit between anualy. The top and bottom enis of the -section and wortical charms decideds along the sides fit into the horizontal channel sections across top mai bottom of the morine boord. The vertical members were welfed to the too channel but merely fit into the battos one to a distunce of about 1/2 in., thereby leaving about 7/16 in. ellowerse for thermal expension of the vertical members. The bottom charmel was welded to an accombly of 1/4 in. stool plates to form a part of the grates for ementing the specimen in the test furnace. Cotails of the test specimen are shown in figure 1.

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The specimen of the control of the c

consistence at some new deposits of . Introduce to entractant one of the constitution region to specify out will . Ampleyon will not be ulivated and allowed to entire the control of not be all then shine? and the done dend dends and the god nell sylpant phonocal gill bread column nell godd north the water appeals and application of the state of the first and the swift of preliment him town ben funds think with the a sice possed has not est extense appared the brand soften to from a newly of partify fourt and the reference of the

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The fire test was observed towarder 25, 1777. In eduction to personnel of the fire framework the test. the feat.

L. Colucciallo, Lt., Taco, Sashington, C. C. S. Otomas, Mapon Astesion Co., Tokyo, Japan

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